

Grand Region Pilot

ON FREEWAYS:

combining Edgelines + Rumble strips:

- US-31, north of Muskegon
- US-131, north of Grand Rapids
- I-96, west of Grand Rapids

MDOT / MSU Research

5-Mile test strip - July 2003



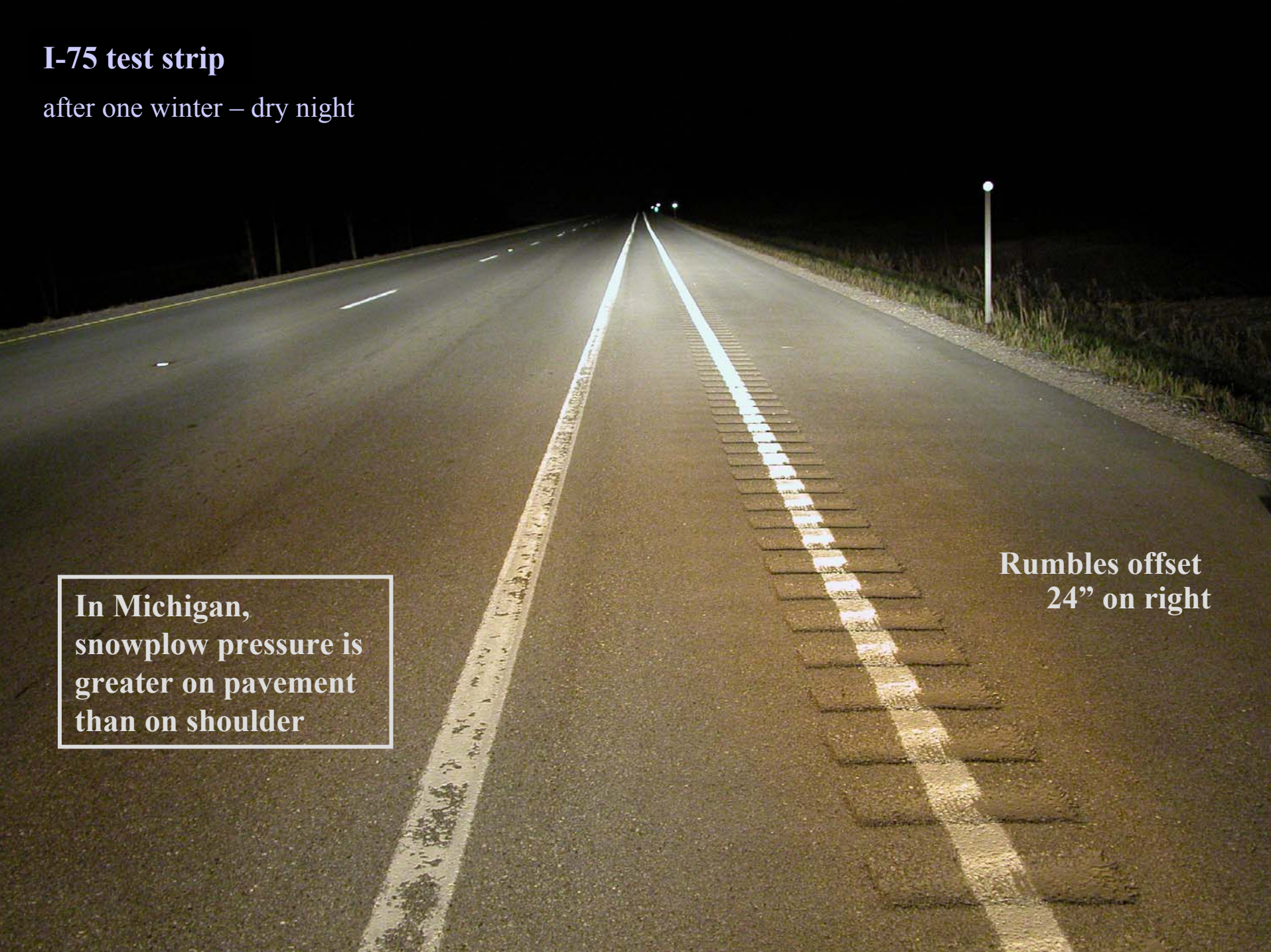
(I-75, North Region)

I-75 test strip

after one winter – dry night

In Michigan,
snowplow pressure is
greater on pavement
than on shoulder

Rumbles offset
24" on right



I-75 test strip

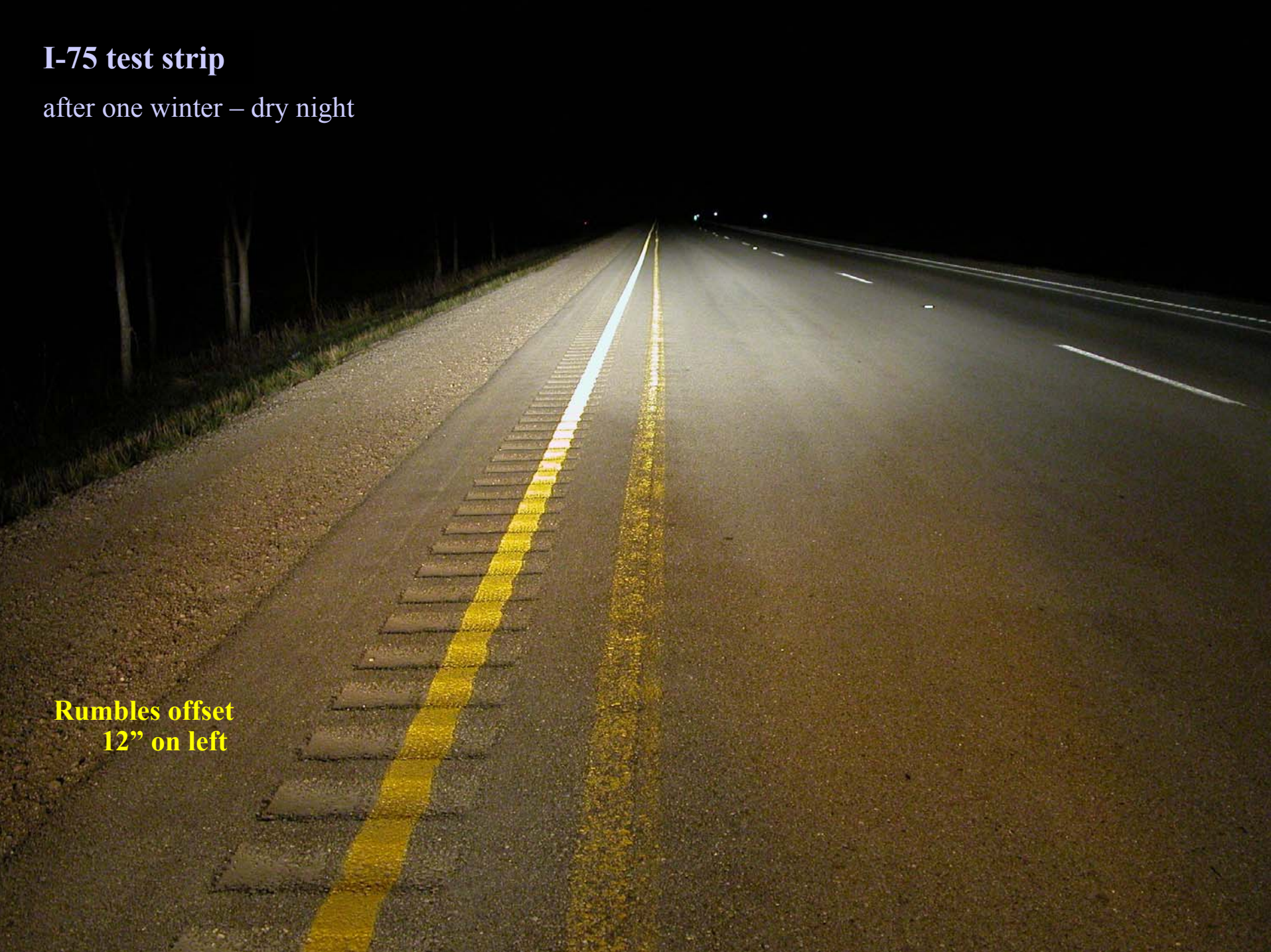
after one winter – WET NIGHT



I-75 test strip

after one winter – dry night

Rumbles offset
12" on left



I-75 test strip

after one winter – WET NIGHT



MDOT Pilot project in Grand Region

- After success of 5-mile test strip, MDOT has contracted to mill and place left and right edgelines on approx 80 miles of freeway (320 shoulder-miles) in the vicinity of Grand Rapids, MI.
- The new rumble/edgeline pilot project will differ from current MDOT standards in several ways:
 - **Rumbles will be cut at 4” offset to travel lane**
 - **Edge line striping will be placed to cover at least 4” of rumbles**
 - **Two markings patterns will be tried:**
 - **6” wide strip**
 - **Double 4” line**

Standard MDOT 24" offset on right shoulder:



Step 1: Mill aggressive 4" offset



**Step 2:
Moving the edge line
onto the rumbles**

Before



After



MDOT Grand Region:

**6" edge line,
covering 4" of rumbles**





Before

**The other Step 2:
Keep existing edge line,
add new line on rumbles:**



After

MDOT Grand Region:
double 4" edge line



WHY WE'RE DOING THIS:

